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Trans. of Prikladnaya Matematika i Mekhanika (USSR) 1956, v. 20, no. 1, p. 73-86.		61-27046
DESCRIPTORS: *Continuous media, Elasticity, Plastic- ity, Rupture, Internal friction.		61-27046
An investigation is made of the two-dimensional limit- ing equilibrium of a connected medium with free con- tours, this being accompanied by rupture curves. Con- sideration is devoted to the limiting equilibrium of semi- arches and arches resulting from their own weight and an example is given of the determination of rupture (Mechanics--Statics, TT. v. 6, no. 10) (over)		61-27046

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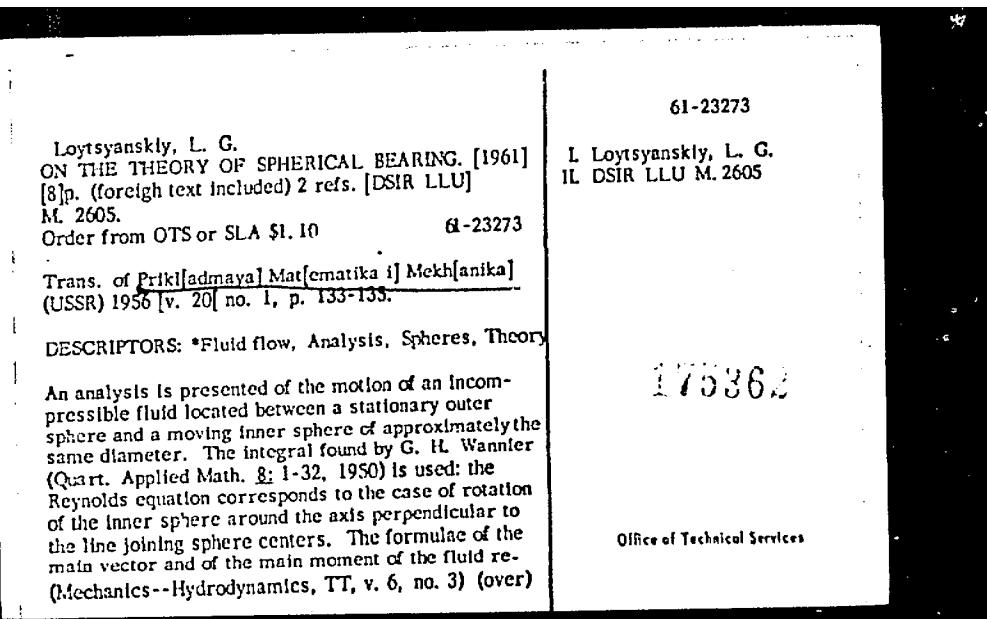


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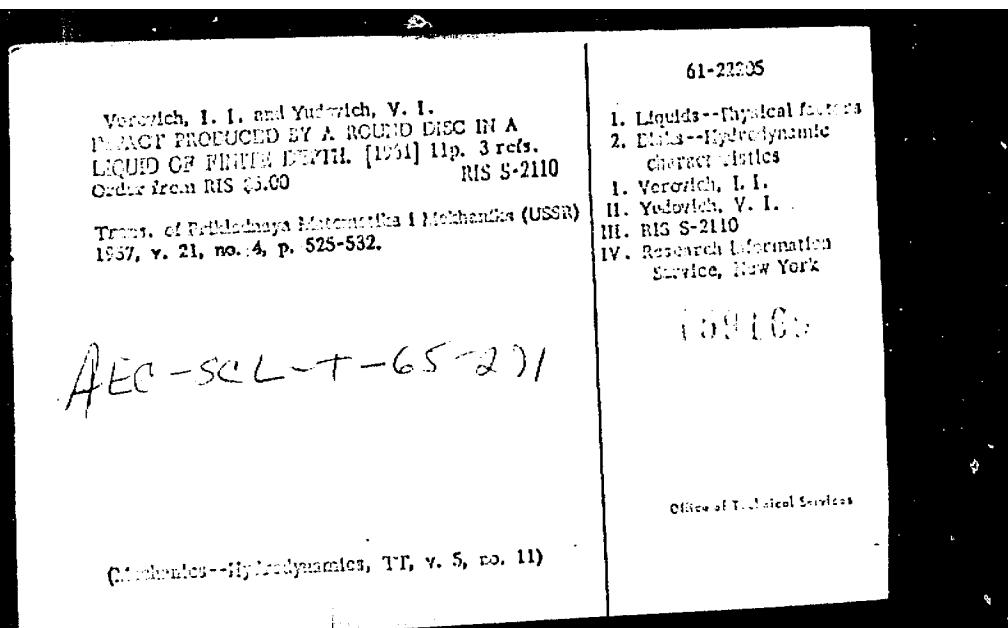
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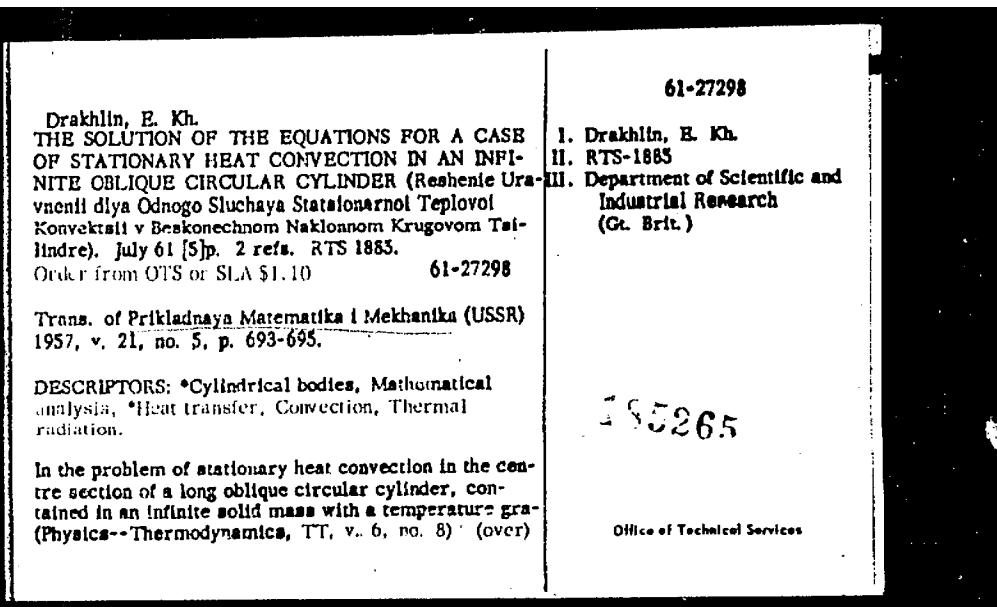
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<p>Krasovskiy, N. N. ON A PARTICULAR PROBLEM OF OPTIMUM CONTROL. [1960] 13p. 12 refs. Order from LC or SLA m\$2.40, ph\$3.30 60-18806 Trans. of Prikladnaya Matematika i Mekhanika (USSR) 1957, v. 21 [no. 5] p. 670-677.</p> <p>An examination is presented of the system of finite difference equations</p> $x_i[(k+1)h] = x_i(kh) + \dots + a_{i,n}x_n(kh) + q_{i,1}u_1(kh) + \dots + q_{i,r}u_r(kh) + j_i(kh)h,$ <p>where ($i = 1, \dots, n$), ($k = 0, 1, \dots$), and ($h > 0$ = const); x_1, \dots, x_n are the coordinates of a point in the phase space of the system; u_1, \dots, u_r are the control variables; $f_i(kh)$ are known functions; and $a_{i,j}$, $q_{i,j}$ are constants. The solution is described and the passage to the limit in the corresponding problem for differential equations when $h \rightarrow 0$ is substantiated.</p>	<p>60-18806</p> <p>1. Control systems-- Mathematical analysis 2. Differential equations-- Applications 1. Krasovskiy, N. N.</p> <p style="text-align: center;"><i>143,010</i></p> <p>Office of Technical Services (Mathematics, TT, v. 5, no. 3)</p>
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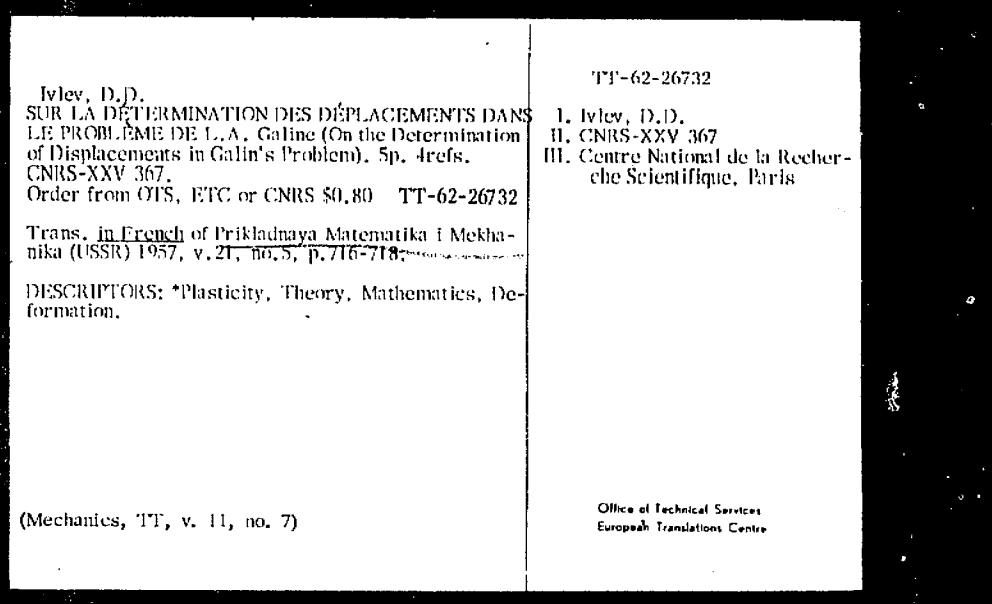
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